

Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

Listing of Claims

1. (currently amended) A prosthetic foot comprising:

a continuously longitudinally extending foot keel having longitudinally aligned ~~a forefoot portion, a raised midfoot portion and a hindfoot portion~~ portions;

a resilient, monolithically formed shank extending upwardly from the foot keel, by way of an anterior facing continuous convexly curved surface which extends over at least most of the length of the shank and has increasing radius of curvature, ~~to form~~ defining an ankle joint area and a curvilinear prosthetic part of a leg extending substantially upward above human ankle joint height and the ankle joint area, the shank having a proximal portion for connection with a lower extremity prosthetic structure secured to a person's residual limb;

wherein the ankle joint area and the prosthetic part of a leg formed by the shank are anterior facing convexly curved and ~~have~~ provide means for sagittal, anterior dorsiflexion and, posterior plantarflexion motion capabilities in response to a ground reaction ~~motion~~ force created in a person's gait in the prosthetic foot; and

wherein the shank and at least the hindfoot portion of the foot keel are monolithically formed.

2. (original) The prosthetic foot according to claim 1, wherein the entire foot keel and the shank are monolithically formed.

3. (withdrawn) The prosthetic foot according to claim 1, wherein the shank and a posterior part of the foot keel are monolithically formed, an anterior part of the foot keel being joined to said posterior part to form said foot keel.

4. (canceled)

5. (canceled)

6. (previously presented) The prosthetic foot according to claim 1, further comprising an adapter connected to the proximal portion of the shank for use in connecting the prosthetic foot to a lower extremity prosthetic structure secured to a person's residual limb.

7. (previously presented) The prosthetic foot according to claim 1, wherein the anterior facing continuous convexly curved surface extends the entire length of the shank.

8. (canceled)

9. (original) The prosthetic foot according to claim 1, wherein the monolithically formed shank and foot keel are formed of metal.

10. (currently amended) A prosthesis comprising:

a continuously longitudinally extending foot having a longitudinally aligned forefoot-portion, a raised midfoot portion and a hindfoot-portion portions;

an ankle;

an elongated, upstanding shank above human ankle joint height and the ankle;

wherein the ankle, shank, and at least the hindfoot portion of the foot are monolithically formed as a resilient member for improving the dynamic response of the prosthesis, the resilient member in the area of the ankle and shank being anterior facing convexly curved over at least most of the length of resilient member above the foot, ~~and wherein the radius of curvature of the anterior facing convexly curved resilient member increases progressively as the resilient member extends upwardly from the foot, and wherein the resilient member provides means for sagittal, anterior dorsiflexion and posterior plantarflexion motion capabilities in response to a ground reaction force created in a person's gait in the prosthesis.~~

11. (currently amended) The prosthesis according to claim 10, wherein the foot includes a continuously longitudinally extending foot keel which is monolithically formed with the ankle and shank as said resilient member.

12. (withdrawn) The prosthesis according to claim 10, wherein the ankle, shank and a posterior part of the foot keel are monolithically formed, an anterior part of the foot being joined to said posterior part to form said foot.

13. (canceled)

14. (canceled)

15. (previously presented) The prosthesis according to claim 10, further comprising an adapter connected to a proximal portion of the resilient member for use in connecting the prosthesis to a lower extremity prosthetic socket on a person's leg stump.

16. (original) The prosthesis according to claim 10, wherein the shank above the ankle is substantially curvilinear in the direction of the longitudinal extent of the foot.

17. (canceled)

18. (original) The prosthesis according to claim 10, wherein the resilient member is formed of metal.

19. - 22. (canceled)

23. (previously presented) The prosthetic foot according to claim 1, wherein the monolithically formed shank and foot keel are formed of resilient material.

24. (previously presented) The prosthesis according to claim 10, wherein the resilient member is formed of plastic.

25. (previously presented) The prosthetic foot according to claim 1, wherein the width of the resilient shank in the frontal plane in the prosthetic foot is greater than the thickness of the shank in the sagittal plane throughout the entire length of the shank such that the shank, in response to a ground reaction force created in the prosthetic foot in gait, flexes substantially in the longitudinal direction of the foot keel for storing, releasing and directing energy in a longitudinal direction to improve dynamic response of the prosthetic foot.

26. (previously presented) The prosthesis according to claim 10, wherein the width of the resilient member in the frontal plane in the prosthesis is greater than the thickness of the resilient member in the sagittal plane throughout the entire length of the resilient member such that the resilient member, in response to a ground reaction force created in the prosthesis in gait, flexes substantially in a longitudinal direction of the foot, for storing, releasing and directing energy in a longitudinal direction to improve dynamic response of the prosthesis.